

# THE PEARL EDUCATIONAL CONSULT KAMPALASCHOOLS



## P.6 PRE-END OF TERM ONE ASSESSMENT 2024

### MATHEMATICS

DURATION : 2HRS 30MINUTES. TEL. 0757999162/0782171915 QUALITY ASSURANCE

NAME:.....

SCHOOL:.....

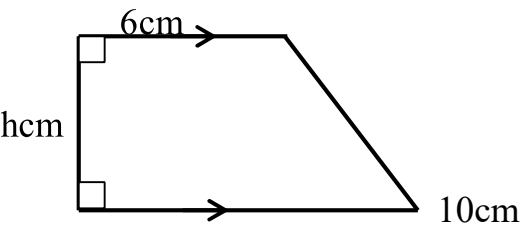
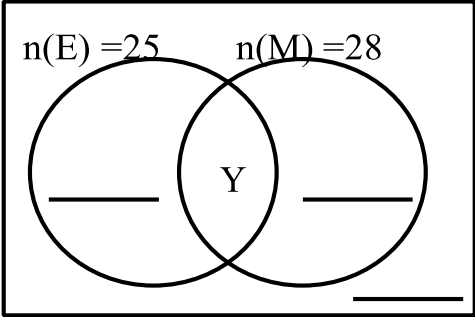
#### SECTION A: 40 MARKS

1.	Workout: $324 \text{ minus } 213$	2.	Express CCXCVI as HinduArabic.
3.	Simplify: $-7 - 3$	4.	Simplify: $5m - 2m + 4m$
5.	Given that the mean of 2, p, 4, 3 and 4 is 4. Find the value of p.	6.	Workout: $- =$

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7.	Given that Q has 7 proper subsets. Find $n(Q)$	8.	Find the fifth triangular number.
9.	Using a pair of compasses, ruler and a very sharp pencil only, construct an angle of $135^\circ$ .		
10.	Convert 2500g into kilogrammes.	11.	Expand 7.53 using exponents
12.	Solve for k: $\_\_\_ - 4 = 6$	13.	Workout $3^2 \times 9^0$

14.	The ratio of blue pens to red pens in a box is 2:3 respectively. If there are 12 red pens in the box, how many pens are in the box altogether?	15.	An examination which started at 8:40a.m ended after a period of 2hours and 30 minutes. At what time did the examination end?
16.	A trader sold a watch at sh.35000 making a loss of sh. 5000. At what price did the trader buy the watch?	17.	Express $29_{\text{ten}}$ as a quinary base.
18.	Round off 9.999 to 2 decimal places.	19.	Find the square root of 64.

20.	<p>The area of the figure below is <math>40\text{cm}^2</math>. Find its height.</p> 		
SECTION B: 60 MARKS			
21.	<p>In a class of 38 pupils, 23 like meat (M), 22 like fish (F), h like both meat and fish while 3 do not like any of the two.</p> <p>a) Use the above information to complete the Venn diagram below. <math>n(\Sigma) = 50</math> 3 marks</p>  <p>b) Find the value of h 2 marks</p> <p>c) How many pupils like fish only? 1 mark</p>		
22.	<table border="1" data-bbox="162 1461 1568 1850"> <tr> <td data-bbox="162 1461 852 1850"> <p>a) Workout: <math>342_{\text{five}} - 24_{\text{five}}</math> 2 marks</p> </td><td data-bbox="852 1461 1568 1850"> <p>b) Give that <math>24_k = 14</math>. Find the value of k 2 marks</p> </td></tr> </table>	<p>a) Workout: <math>342_{\text{five}} - 24_{\text{five}}</math> 2 marks</p>	<p>b) Give that <math>24_k = 14</math>. Find the value of k 2 marks</p>
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23.	The sum of three consecutive natural numbers is 36. If the smallest number is $k - 2$ . <span style="float: right;">2 marks</span>		
	a) Find the value of k <span style="float: right;">4 marks</span>		b) Write the middle number in words. <span style="float: right;">2 marks</span>

24.	$\frac{1.6+0.8}{\text{Workout: } 2.5+1.7}$ <span style="float: right;">2 marks</span>		
25.	A car moved a distance of 225km in 2hours and 30minutes.		
	a) Calculate the speed the car was using.		b) If the car moved the same distance using a speed of 45km/hr. How long did the car take to cover the same distance? <span style="float: right;">2 marks</span>

26.	<p>Study the factor diagram below and use it to answer the questions that follow.</p> <div data-bbox="175 184 636 470"> </div> <p>a) Find the value of W <span style="float: right;">2 marks</span></p>		
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 10px; vertical-align: top;"> <p>b) Find the the value of M 2 marks</p> </td><td style="width: 50%; padding: 10px; vertical-align: top;"> <p>c) Calculate the GCF of W and 30</p> </td></tr> </table>	<p>b) Find the the value of M 2 marks</p>	<p>c) Calculate the GCF of W and 30</p>
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28.	<p>Given that <math>m</math> and <math>72^\circ</math> are complementary angles, find the value of <math>m</math></p> <p>2 marks</p>	<p>Find the value of <math>p</math> in the figure below in degrees.</p> <div data-bbox="938 226 1166 382" data-label="Diagram"> </div> <p>3 marks</p>
29.	<p>The pie-chart below shows how Mr. Lubwama spends his monthly salary.</p> <div data-bbox="256 802 539 1186" data-label="Figure"> <p>monthly salary</p> </div> <p>a) Find the value of <math>K</math> in degrees.</p> <p>2 marks</p> <p>b) If he spends sh.48,000 on food, calculate Mr. Lubwama's monthly salary</p> <p>3 marks</p>	

30. Wasswa went to the market and bought the following items;
- ☐ 1  $\frac{1}{2}$  kg of meat at sh. 16,000@kg
  - ☐ 500g of curry powder at sh.6,000 per kg.
  - ☐ 3litres of milk at sh. 1000 per  $\frac{1}{2}$  litre. ☐ 2kg of rice at sh. 9000.

a) Calculate his total expenditure.

4 marks

b) If Wasswa went with one note and remained with sh. 8000, which note did he go with?

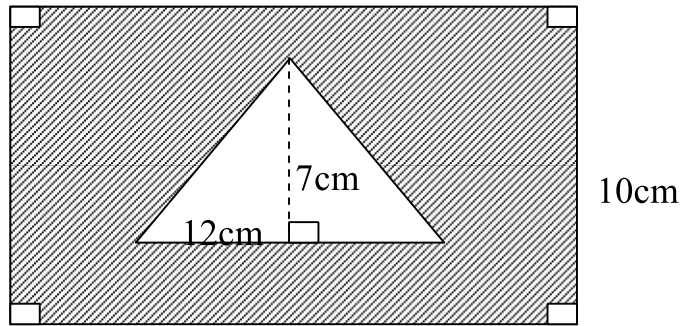
2 marks



31. Study the figure below carefully and use it to answer the questions that

follow. 18cm

a) Find the area of the outer figure. 2 marks



Find the area of the outer figure.

2 marks

Calculate the area of the inner figure.

2 marks

32. a) Using a pair of compasses, ruler and a sharp pencil only, construct an equilateral triangle in a circle of radius 3cm.

END